

# Maintenance On New Equipment Designs Course Series



## Entire Series:

9 contact hours credit (0.9 CEU's)

## Individual Courses:

Maintenance & The Maintenance  
Control Plan (Chapters 1-2)

3 contact hours credit (0.3 CEU's)

Maintenance On New Equipment  
Designs (Chapters 3-10)

6 contact hours credit (0.6 CEU's)



## Approved by:

- ♦ National Association of Elevator Contractors for CET®/CAT®
- ♦ NAESA for QEI
- ♦ States of: Alabama, Florida, Georgia, Kentucky, Pennsylvania, Virginia, Washington and West Virginia

## Program Materials

The Maintenance on **New Equipment Designs Course Series** is based on the following book, which can be purchased separately from Elevator World.

*Maintenance on New Equipment Designs* by John Koshak

An in-depth guide designed for the service technician coming in contact with a wide range of new designs of elevator equipment including: Machine-room-less elevators, permanent magnet traction machines, friction governors, MRL blocking devices and much more. In addition, Koshak explains requirements of the Maintenance Control Program, codified in ASME A17.1, with steps that need to be taken in order to maintain compliance.

**Cost: \$48.75 (non-subscriber) or \$41.45 (EW subscribers)**

## Learning Objectives

By studying the required materials to take, the exam the reader will have had the opportunity to learn about:

- The difference in maintenance procedures on machine-room-less elevators and legacy equipment
- Maintenance control programs (MCPs) and what they entail
- The importance of scheduled interval maintenance
- How interval maintenance should be scheduled
- What check charts are and what they do
- Applicable components and where a list of them can be found
- What maintenance records include and where they should be located
- Code data plates
- Critical operating circuits
- The importance of cleaning and housekeeping in the field

## Curriculum

The following are some areas of new equipment designs that are covered:

### Chapter 1 — Maintenance

### Chapter 2 — Maintenance Control Program

### Chapter 3 — Performing Maintenance:

- Safety Traditional • Elevator Maintenance
- Maintenance on New Designs • Required Materials

### Chapter 4 — Governor and Safety Systems

### Chapter 5 — Electric Driving Machines:

- Maintenance • Inspection & Testing
- Adjustment, Repair & Replacement • Materials Required by the MCP

### Chapter 6 — Suspension Means:

- Maintenance • Inspection & Testing
- Adjustment, Repair & Replacement • Materials Required by the MCP

### Chapter 7 — Brakes:

- Maintenance • Inspection & Testing
- Adjustment, Repair & Replacement • Materials Required by the MCP

## **Chapter 8 — Ascending Car Overspeed and Unintended Car Movement:**

- Maintenance • Inspection & Testing
- Adjustment, Repair & Replacement • Materials Required by the MCP

## **Chapter 9 — Controllers:**

- Maintenance • Inspection & Testing
- Adjustment, Repair & Replacement • Materials Required by the MCP

## **Chapter 10 — Listing and Labeling:**

- E/E/PES Devices and Listed/Certified Devices
- Adjustment, Repair, and Replacement • Materials Required by the MCP

## **Testing for Contact Hours**

### **• Maintenance On New Equipment Designs, Full Course Series —**

All tests listed below are included, for a total of nine (9.0) contact hours towards recertification. Testing fee is \$170.00 (non subscribers) or \$144.50 (EW subscribers).

### **• Maintenance & The Maintenance Control Plan Course —**

30 multiple choice questions will be chosen at random from Chapters 1 & 2, and the candidate will have 90 minutes to take the exam. This counts as three (3.0) contact hours towards recertification. Testing fee is \$70.00 (non subscribers) or \$59.50 (EW subscribers).

### **• Maintenance On New Equipment Designs Course —**

85 multiple choice questions will be chosen at random from Chapters 3–10, and the candidate will be allowed 90 minutes to take the exam. This counts as six (6.0) contact hours towards recertification. Testing fee is \$130.00 (non subscribers) or \$110.50 (EW subscribers).

## **Course Specifics**

- Applicants will be allowed one free retake of the exam. Subsequent retakes will be \$25.00 each.
- The testing company is **Exambuilder.com**. All testing will be on its server, and Elevator World will be charged for each person taking the exam. A database of persons taking the test along with their scores and dates will be kept at Exambuilder.com and at Elevator World. All pertinent information will be kept in a database for a minimum of seven years.
- After the test is taken the student will be able to determine immediately if they passed or failed. **A passing score is 80%.** A follow-up email will be sent by Elevator World confirming the test score and setting up retakes if needed. A certificate of completion may be printed by the candidate.

## **Provider Information**

Elevator World, Inc. is the largest publisher in the world devoted to the elevator industry: publishing a monthly journal; compiling the Elevator World SOURCE®, the most inclusive directory in the industry; publishing numerous books used for industry education; maintaining ELENET, a biweekly email newsletter; and developing the Elevator World online network, a group of specialized websites with more than 70,000 users a month. Elevator World is the publisher and distributor of the print-based materials for the four-year Certified Elevator Technician (CET) Education Program. The company is 62 years old and has played a key role in the transfer of knowledge in the vertical-transportation industry.

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